

OIL ANALYSIS REPORT

Sample Rating Trend





Area (41434UA) Machine Id 813006

Component Diesel Engine

DIESEL ENGINE OIL SAE 40 (--- GAL)

DIAGNOSIS	
Recommendation	

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

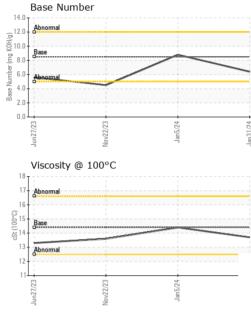
Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

AE 40 (GAL)		Jun202	3 Nov2023	Jan2024 Ja	m2024	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0108263	GFL0098239	GFL0083890
Sample Date		Client Info		31 Jan 2024	05 Jan 2024	22 Nov 2023
Aachine Age	hrs	Client Info		3548	3360	3025
Dil Age	hrs	Client Info		3548	3360	3025
Dil Changed		Client Info		Not Changd	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
uel		WC Method	>3.0	<1.0	<1.0	<1.0
Vater		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>120	10	5	37
Chromium	ppm	ASTM D5185m	>20	<1	0	1
lickel	ppm	ASTM D5185m	>5	3	<1	5
ītanium	ppm	ASTM D5185m	>2	<1	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	2	<1	1
ead	ppm	ASTM D5185m	>40	0	0	<1
Copper	ppm	ASTM D5185m	>330	3	2	11
īn	ppm	ASTM D5185m	>15	<1	0	2
/anadium	ppm	ASTM D5185m		0	<1	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	6	9	2
Barium	ppm	ASTM D5185m	10	<1	0	0
Nolybdenum	ppm	ASTM D5185m	100	61	56	58
langanese	ppm	ASTM D5185m		<1	<1	<1
<i>l</i> lagnesium	ppm	ASTM D5185m	450	901	922	978
Calcium	ppm	ASTM D5185m	3000	1146	1074	1168
Phosphorus	ppm	ASTM D5185m	1150	978	1043	1024
Zinc	ppm	ASTM D5185m	1350	1217	1238	1295
Sulfur	ppm	ASTM D5185m	4250	2985	3104	2491
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	3	4	9
Sodium	ppm	ASTM D5185m	>216	0	<1	8
Potassium	ppm	ASTM D5185m	>20	2	1	<1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.5	0.2	1.1
Vitration	Abs/cm	*ASTM D7624	>20	8.6	5.4	11.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.7	17.6	23.9
FLUID DEGRAD	DATION	method	limit/base	current	history1	history2
Dxidation	Abs/.1mm	*ASTM D7414	>25	15.3	13.4	20.7
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	6.4	8.8	4.5



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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPE	RTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	14.4	13.7	14.4	13.6
iron chromium nickel						
chromium nickel		lants/24	n31/24			
EZ/IZZunf Non-ferrous Meta	IIs	Jan5/24	Jan31/24			
Lion chromium nickel EZIZZV09 Non-ferrous Meta	ls	Jan5/24	Jan31/24			
E2/12Unf Non-ferrous Meta	ls	Jan5/24	Jan31/24			
Lion chromium nickel EZIZZUNG Non-ferrous Meta	lls	Jan5/24	Jan 31/24			

Base Number

14.0

12.0 (B/H0.0 8.0

mber 6.0

Base | 4 (

Jan31/24.

: 01 Feb 2024

2.0

0.0

Jun27/23

Nov22/23

Bas



Lab Number : 06077580 Diagnosed : 02 Feb 2024 Fredericksburg, VA Unique Number : 10859671 Diagnostician : Wes Davis Test Package : FLEET Contact: TECHNICIAN ACCOUNT Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. catherine.anastasio@wearcheck.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Nov22/23

Jan5/24 -

: WearCheck USA - 501 Madison Ave., Cary, NC 27513

Recieved

Viscosity @ 100°C

18

17

16

13

12

11-

Laboratory Sample No. Jun27/23

Abnorma

: GFL0108263

cSt (100°C) B

Submitted By: TECHNICIAN ACCOUNT

Jan5/24

10954 Houser Drive

GFL Environmental - 652 - Fredericksburg Hauling

US 22408

Jan31/24

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